



## **SMOKE Input Data**

#### **Emissions Inventory**

Western Regional Air Partnership (WRAP) 1996 Base Case Scenario County data for area, mobile and point source emissions Inventory species: NO<sub>x</sub> CO NH<sub>3</sub> SO<sub>2</sub> VOC

### Meteorological Data

MM5 simulation results for episode days June 4-7, 2002 & July 10-13, 2002



# **SMOKE Input Data**

#### Land Use Data

U.S. EPA's Biogenic Emissions Landcover Database (BELD3),1 km x 1km resolution, 230 land use types <a href="ftp://ftp.epa.gov/amd/asmd/beld3">ftp://ftp.epa.gov/amd/asmd/beld3</a>

### **Spatial Surrogate Data**

U.S. EPA's 4km Spatial Surrogate Data covering the United States

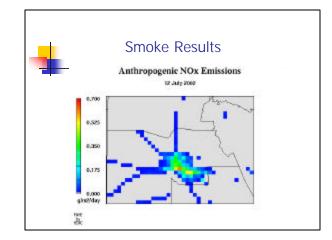
http://www.epa.gov/ttn/chief/emch/spatial/

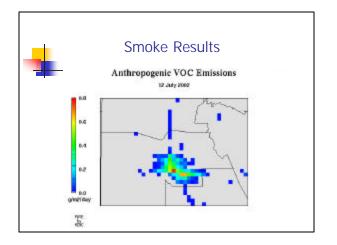


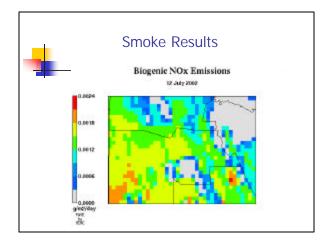
## **Spatial Surrogate Codes**

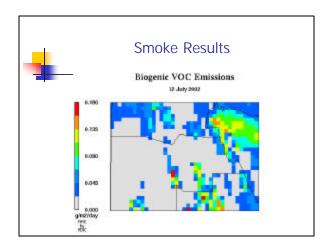
Agriculture Urban Area Airports Rural Area Land Area Forest Area

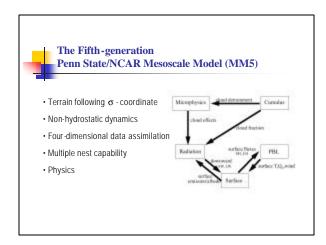
Housing Urban Primary Roads
Major Highways Rural Primary Roads
Population Urban Secondary Rds.
Ports Rural Secondary Rds.
Railroads Urban Population
Water Area Rural Population

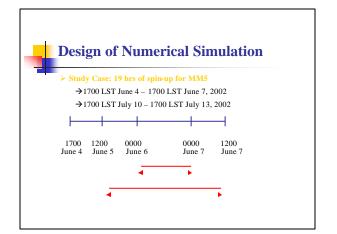


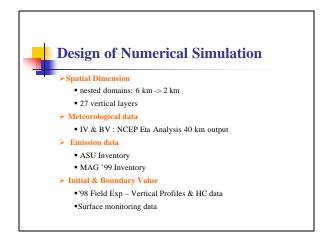


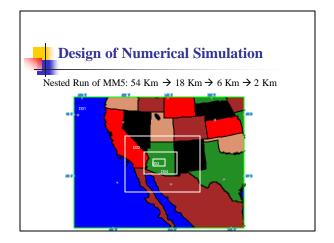


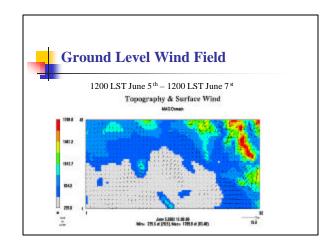


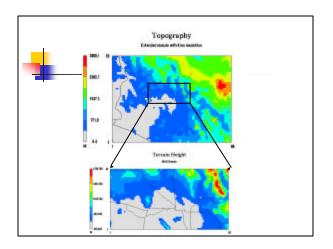


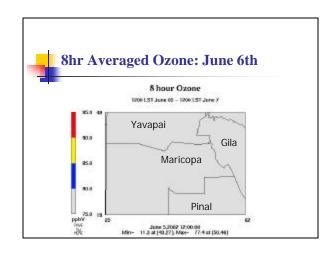


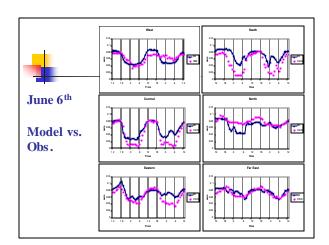


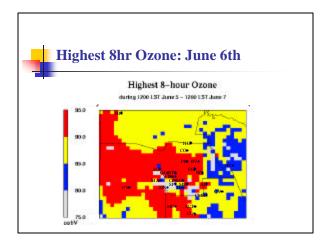


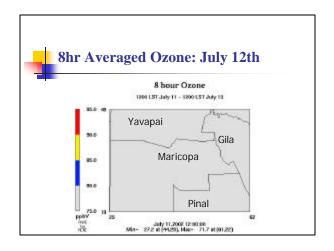


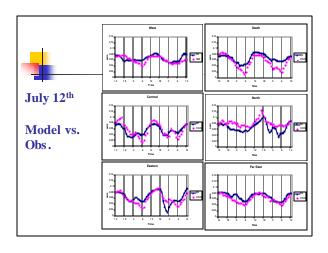


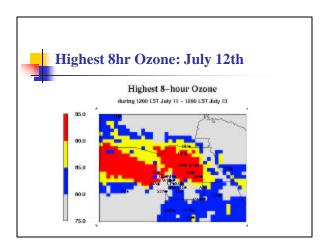














### **Summary**

- CMAQ prediction agrees reasonably well compared to observations. The model performance met EPA guidelines for model validation.
- 2. The highest 8-hr ozone concentration was predicted for the central valley as well as the west of the valley.
- 3. The bulk of the domain violated the 8 hour ozone standard.